

Date: Wed, 10 Aug 94 04:30:08 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #893
To: Info-Hams

Info-Hams Digest Wed, 10 Aug 94 Volume 94 : Issue 893

Today's Topics:

 cell sites
 Crossband repeating rigs & auto IDers
 Daily Summary of Solar Geophysical Activity for 27 July
 Help! How to Improve my CW Speed? (2 msgs)
 Icom 735 Production Run
 Inputs on Hallicrafters SR-2000 xvcx needed
 IPS Daily Report - 08 August 94
 Need some help with the design of an Operational Amplifier

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 10 Aug 1994 02:30:11 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!vixen.cso.uiuc.edu!sdd.hp.com!
hpscit.sc.hp.com!cupnews0.cup.hp.com!cupnews2.cup.hp.com!bmp@network.ucsd.edu
Subject: cell sites
To: info-hams@ucsd.edu

yctcsl@cerfnet.com wrote:

: Does anyone have any info regarding the rate paid by PacBell (AirTouch) for
: establishing a cell site lease. The offers been made however I'd be interested
to
: find out just what being paid these days.

I'd negotiate for a phone or two with free airtime as part of the deal.

Brian

Date: 10 Aug 1994 00:15:06 GMT
From: spool.mu.edu!agate!kennish@uunet.uu.net
Subject: Crossband repeating rigs & auto IDers
To: info-hams@ucsd.edu

In article <776461176.85snx@n2ayj.overleaf.com>,
Stan Olochwoszcz N2AYJ <n2ayj@n2ayj.overleaf.com> wrote:
>In article <32872b\$dls@news.duke.edu> jbs@duke.edu writes:

>Once upon a time repeaters didn't auto ID. If WX2ABC sets up a rig
>to do crossband, it's a repeater, right? I don't know anything in the
>rules that makes "N2AYJ, WX2ABC repeat" an invalid ID. You've ID'ed,
>and the repeater's been ID'ed.

>To my way o' tinkin', no problem, mon. :{)

This would be legal, if you could get it to repeat both ways. The
common application of xband repeat is this. You have a dual band
mobile and a 440 HT. You want to go fishing. Park car, and set up
mobile to do x-band repeat as follows:

In: 446.0 (for example) Out: 2m repeater's input frequency
In: 2m repeater's output frequency Out: 446.0

OK, so now you have a 440 extender you can take down to the canyon where
the fish are...

If you call out to your 2m repeater saying this is N1ABC, N1ABC repeater,
that covers the first side of the link. But unless you have
people cooperate on the other side, the 2m->440 side doesn't get
ID'd, and that's the problem. You have to convince your
buddies (and all those that aren't talking to you, but are on
the 2m repeater) to ID your mobile for you, every 10 mins there
is activity.

Is this a real problem? Not, unless you are gonna split hairs about
rules. But it IS illegal. The bigger problem with X-band are the
bozos out there that don't know how to pick the right frequencies.
The example given above is somewhat risky, since you are xbanding
onto a repeater input.

==ken

Solar activity forecast: solar activity is expected to be very low.

STD: An eruptive prominence was observed near S36 on the west limb between 06:52 and 07:19 UTC.

The geomagnetic field was quiet for most of the past 24 hours. An active to minor storm period occurred at many stations from 27/0300-0600Z.

Geophysical activity forecast: the geomagnetic field is expected to be quiet to unsettled.

Event probabilities 28 jul-30 jul

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 28 jul-30 jul

A. Middle Latitudes	
Active	20/20/20
Minor Storm	10/10/10
Major-Severe Storm	05/05/05
B. High Latitudes	
Active	25/25/25
Minor Storm	10/10/10
Major-Severe Storm	05/05/05

HF propagation conditions were normal over all regions. A few high-latitude stations may have seen a brief period of minor signal degradation coincident with the period of minor geomagnetic storming between 03:00 and 06:00 UTC. Near-normal propagation will continue over the next 3 days inclusive.

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REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 27/2400Z JULY

NMBR	LOCATION	LO	AREA	Z	LL	NN	MAG	TYPE
------	----------	----	------	---	----	----	-----	------

7757	N11W73	334	0150	HSX	02	001	ALPHA	
------	--------	-----	------	-----	----	-----	-------	--

7758	S14W56	317	0000	AXX	00	001	ALPHA	
------	--------	-----	------	-----	----	-----	-------	--

REGIONS DUE TO RETURN 28 JULY TO 30 JULY

NMBR	LAT	LO
7750	S17	168
7749	S09	166
7746	N11	157
7747	S16	151

LISTING OF SOLAR ENERGETIC EVENTS FOR 27 JULY, 1994

BEGIN	MAX	END	RGN	LOC	XRAY	OP	245MHZ	10CM	SWEEP
NONE									

POSSIBLE CORONAL MASS EJECTION EVENTS FOR 27 JULY, 1994

BEGIN	MAX	END	LOCATION	TYPE	SIZE	DUR	II	IV
27/ 0652		0719	S36W90	EPL				

INFERRED CORONAL HOLES. LOCATIONS VALID AT 27/2400Z

ISOLATED HOLES AND POLAR EXTENSIONS

EAST	SOUTH	WEST	NORTH	CAR	TYPE	POL	AREA	OBSN
NO DATA AVAILABLE FOR ANALYSIS								

SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
NO EVENTS OBSERVED.										

REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
	--	--	--	--	--	--	--	--	--	-----
Uncorrelated:	0	0	0	0	0	0	0	0	000	(0.0)

Total Events: 000 optical and x-ray.

EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical	Observations
------	-------	-----	-----	------	----	--------	------	----------------	--------------

NO EVENTS OBSERVED.

NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

** End of Daily Report **

Date: 9 Aug 1994 20:42:28 -0500
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!cs.utexas.edu!
gerald@cc.utexas.edu!curly.cc.utexas.edu!not-for-mail@network.ucsd.edu
Subject: Help! How to Improve my CW Speed?
To: info-hams@ucsd.edu

In article <323232\$2ql@scunix2.harvard.edu>,
Yuzuru Suzuki <ys@isr.harvard.edu> wrote:
>I posted my article a couple of days ago, and Jim, WA6SDN, thought that
>it was a joke. I just wanted to let everyone know that it is not a
>joke, and that I am dead serious! I will summarize my question again.
>
>I am having difficulty going over 30 WPM. I can copy solid at 25 WPM.

I see a lot of sensible commentary has been made, so I will touch on two things:

When I was starting to play kid baseball, the kids in my neighborhood used to play a game called "burnout". Burnout was a simple game of catch, except that you would throw the ball as hard as you could when tossing the ball

back and forth.

When I was starting to play radio, I had a few kids in my ham neighborhood that I used to play CW burnout with. We would turn up the keyers as fast as we could manage to send, and wear each other out. Of course, when you are a kid you have a lot of time to do this kind of thing, but I found it paid off. If you have one or two friends who have the time and are at a similar skill level, this would be something to try.

Secondly, I keep hearing this saying "good CW operators eventually learn to hear words rather than characters when going at high speeds." This has never been the case for me, or at least it has never felt this way in my brain. Perhaps this is why I never advanced beyond 65ish WPM. I only mention this because I don't think it's necessary to "hear words" to be a competent CW operator.

--Trey, WN4KKN/6

Date: Sat, 6 Aug 1994 17:29:05 GMT
From: agate!howland.reston.ans.net!swrinde!sdd.hp.com!col.hp.com!news.dtc.hp.com!
hpscit.sc.hp.com!cupnews0.cup.hp.com!jholly@ames.arpa
Subject: Help! How to improve my CW speed?
To: info-hams@ucsd.edu

Yuzuru Suzuki (ys@isr.harvard.edu) wrote:

: I am a relatively new ham operator. I got my first license in February
: this year. I operate only in CW, and I am trying to improve my CW skills,
: and would like any advice or suggestions. I am having difficulty going
: above 30 WPM. I got W1AW's code proficiency certificate for 25 WPM a
: couple of months ago, but still can not copy solid at 30 WPM. I do not
: participate in any contest, and I am mainly interested in ragchewing.

This is a joke, isn't? I missed the smilely.

73, Jim, WA6SDM
jholly@cup.hp.com

Date: 10 Aug 94 10:37:24 GMT
From: news-mail-gateway@ucsd.edu
Subject: Icom 735 Production Run
To: info-hams@ucsd.edu

As I recall, the 735 was first introduced in late 1985, and was reviewed

(favorably) by QST in January or February 1986. I believe it has been recently discontinued.

I assume you own a 735 (or why would you be making this inquiry?). I own one too. Great rig for the money.

73 de KB2PWW

Date: Tue, 9 Aug 1994 10:00:14 GMT
From: ihnp4.ucsd.edu!agate!library.ucla.edu!europa.eng.gtefsd.com!darwin.sura.net!
jabba.ess.harris.com!usenet@network.ucsd.edu
Subject: Inputs on Hallicrafters SR-2000 xvr needed
To: info-hams@ucsd.edu

Good morning to all...

If you have owned or used a Hallicrafters SR-2000 xvr, I'd like to hear your impressions of this rig. I can purchase one from an estate sale for a reasonable amount and would like to get some facts on this unit.

Thanks,
Ray

Date: Mon, 8 Aug 1994 23:43:26 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!agate!msuinfo!
harbinger.cc.monash.edu.au!news.cs.su.oz.au!metro!ipso!rwc@network.ucsd.edu
Subject: IPS Daily Report - 08 August 94
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT
ISSUED AT 08/2330Z AUGUST 1994 BY IPS RADIO AND SPACE SERVICES
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.
SUMMARY FOR 08 AUGUST AND FORECAST FOR 09 AUGUST - 11 AUGUST

1A. SOLAR SUMMARY
Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 74/11

GOES satellite data for 07 Aug
Daily Proton Fluence >1 MeV: 9.0E+05

Daily Proton Fluence >10 MeV: 1.4E+04

Daily Electron Fluence >2 MeV: 6.1E+06

X-ray background: A1.9

Fluence (flux accumulation over 24hrs)/ cm2-ster-day.

1B. SOLAR FORECAST

	09 Aug	10 Aug	11 Aug
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number for 09 Aug: 75/13

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: mostly quiet.

Estimated Indices : A	K	Observed A Index 07 Aug
Learmonth	6 3221 1212	
Fredericksburg	1	4
Planetary	3	3

Observed Kp for 07 Aug: 0010 1111

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
09 Aug	5	Quiet
10 Aug	25	Unsettled to active, with isolated minor storm levels possible.
11 Aug	25	Unsettled to active, with isolated minor storm levels possible.

COMMENT: IPS Geomagnetic Warning 2 was issued on 7 August and is current for interval 10-12 August.

3A. GLOBAL HF PROPAGATION SUMMARY

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
08 Aug	normal	normal	normal

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
09 Aug	normal	normal	normal
10 Aug	normal	fair	poor-fair
11 Aug	normal	fair	poor-fair

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

Observed
DATE T-index MUFs at Sydney
08 Aug 27 Near predicted monthly values, apart from
enhancements of 20-50% from 17-20UT.

Predicted Monthly T-index for August: 20

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE T-index MUFs
09 Aug 25 Near predicted monthly values, with enhancements of
30-50% leading up to local dawn.
10 Aug 30 As for 09 Aug.
11 Aug 30 As for 09 Aug.

COMMENT: Local propagation conditions may be degraded in association
with geomagnetic activity from 10-12 August. MUFs are not expected to
be significantly affected.

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IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
RWC Duty Forecaster tel: +61 2 4148329	PO Box 5606
Recorded Message tel: +61 2 4148330	West Chatswood NSW 2057
email: rwc@ips.oz.au fax: +61 2 4148331	AUSTRALIA

Date: 9 Aug 94 00:17:46 CDT
From: ihnp4.ucsd.edu!ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!
vixen.cso.uiuc.edu!newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!kuhub.cc.ukans.edu!
christos@network.ucsd.edu
Subject: Need some help with the design of an Operational Amplifier
To: info-hams@ucsd.edu

hello there,

I have a question concerning design of a simple amplifier using
operational amplifiers. I am simply designing a noninverting amplifier with a
gain of 2, that is $R1=R2$ (Closed Loop Gain= $(1+R2/R1)$). No matter what I apply
to the input of the amp the output always saturates to -11 Volts. Even if no
input is applied the output still gives a -11V.
The voltages that I am applying to the Vcc+ and Vcc- of the op amp are +12V and
-12V respectively. I am using the LM 741 opamp for this application.

Does anybody in this group happen to know what the problem might be?

I would appreciate any relevant response.

Please e-mail.

Thanks in advance

Chris

End of Info-Hams Digest V94 #893
